



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Richard James Lewis et al. **Examiner:** Unassigned
Serial No: 10/537,704 **Art Unit:** Unassigned
Filed: December 12, 2005 **Docket:** 16095
For: NOVEL χ -CONOTOXIN PEPTIDES (-I) **Dated:** June 28, 2006

Confirmation No: 6539

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

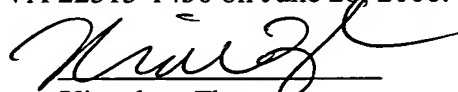
In accordance with 37 C.F.R. §§1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

1. International Publication No. WO 98/22126, published May 28, 1998;

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on June 28, 2006.

Dated: June 28, 2006


Xiaochun Zhu

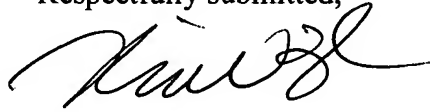
2. International Publication No. WO 91/07980, published June 13, 1991;
3. International Publication No. WO 96/14079, published May 17, 1996;
4. International Publication No. WO 96/40064, published December 19, 1996;
5. International Publication No. WO 98/05309, published February 12, 1998;
6. International Publication No. WO 98/02148, published January 22, 1998;
7. International Publication No. WO 98/51668, published November 19, 1998;
8. International Publication No. WO 97/30997, published August 28, 1997;
9. International Publication No. WO 97/01351, published January 16, 1997;
10. United States Patent No. 6,767,896 B1, dated July 27, 2004, issued to McIntosh et al.;
11. United States Patent No. 6,794,361 B1, dated September 21, 2004, issued to Lewis et al.;
12. United States Patent No. 5,587,454, dated December 24, 1996, issued to Justice et al.;
13. United States Patent Application Publication No. 2005/0054827 A1, dated March 10, 2005 to Lewis et al.;
14. Bowersox, S.S. et al., "Selective N-Type Neuronal Voltage-Sensitive Calcium Channel Blocker, SNX-111, Produces Spinal Antinociception in rat Models of Acute, Persistent and Neuropathic Pain", *J. Pharmacol Exp. Ther.*, 279 (3): 1243-1249 (1996);
15. Krames, Elliot S. et al., "Intrathecal D-Ala²-D-Leu⁵-enkephalin (DADL) Restores Analgesia in a Patient Analgetically Tolerant to Intrathecal Morphine Sulfate", *Pain*, 24: 205-209 (1986);
16. Takagi, H. et al., "Analgesic Effect of *L-threo*-3-4-dihydroxyphenylserine (L-DOPS) in Patients with Chronic Pain", *European Neuropsychopharmacology*, 6: 43-47 (1996);
17. Eisenach, C. et al., "Cerebrospinal Fluid Norepinephrine and Acetylcholine Concentrations During Acute Pain", *Anesth Analg*, 82: 621-626 (1996);
18. Dubner, R. et al., "The Neurobiology of Pain and Its Modulation", *The Clinical Journal of Pain*, 5(Suppl 2): S1-S6 (1989);

19. Dyck, P.J et al., "New Understanding and Treatment of Diabetic Neuropathy", *The New England Journal of Medicine*, 326(19):1287-1288 (1992);
20. Atkinson, J. H. et al., "A Placebo-controlled Randomized Clinical Trial of Nortriptyline for Chronic Low Back Pain", *Pain*, 76: 287-296 (1998);
21. Mico, J. A., et al., "Analgesic, Sedative and Antidepressant Effects of Noradrenergic Antidepressants Related to Beta-Adrenoceptors", *European Neuropsychopharmacology*, S162, P.1.086, Abstract (1997);
22. Springer, J. P. et al., "Facilitatory and Inhibitory Effects of Selective Norepinephrine Reuptake Inhibitors on Hypogastric Nerve-Evoked Urethral Contractions in the Cat: A Prominent Role of Urethral β -Adrenergic Receptors", *The Journal of Urology*, 152: 515-519 (1984);
23. Dinan, T. G. et al., "Assessment of Central Noradrenergic Functioning in Irritable Bowel Syndrome Using a Neuroendocrine Challenge Test", *Journal of Psychosomatic Research*, 34(5): 575-580 (1990);
24. Leung, D. et al., "Protease Inhibitors: Current Status and Future Prospects", *J. Med Chem*, 43(3): 305-341 (2000);
25. O'Neill, M. J. et al., "Effects of Ca^{2+} and Na^{+} channel inhibitors in vitro and in global cerebral ischaemia in vivo", *European Journal of Pharmacology*, 332: 121-131 (1997);
26. Eisenach, J. C. et al., "Intrathecal, but Not Intravenous, Clonidine Reduces Experimental Thermal or Capsaicin-Induced Pain and Hyperalgesia in Normal Volunteers", *Anesth Analg*, 87: 591-596 (1998);
27. Marban, E. et al., "Structure and Function of Voltage-Gated Sodium Channels", *Journal of Physiology*, 508.3: 647-657 (1998);
28. Yanagawa, Y. et al., "A Novel Sodium Channel Inhibitor from *Conus geographus*: Purification, Structure, and Pharmacological Properties", *Biochemistry*, 27: 6256-6262 (1988);
29. Ryan, R., et al., "Evaluation of an Enkephalin Analog in Men with Castor Oil-Induced Diarrhea", *Clinical Pharmacol Ther*, 39(1): 40-42 (1986);
30. Penttila, O, et al., "Studies of Rectal Mucosal Catecholamines in Ulcerative Colitis", *Annals of Clinical Research*, 7: 32-36 (1975).

Applicants are submitting copies of Reference Numbers 1-9 and 14-30. In accordance with the waiver of 37 C.F.R. § 1.98 (a)(2)(i) in effect as of June 30, 2003, Applicants are not required to submit copies of the above-cited U.S. Patent Reference Numbers 10-13.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. §1.97(b), no statement or fee is required.

Respectfully submitted,


A handwritten signature in black ink, appearing to read 'Xiaochun Zhu', with a stylized flourish at the end.

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IFW

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))					Docket No. 16095	
In Re Application Of: Richard James Lewis et al.						
<div style="float: left; width: 15%; text-align: center;">  </div>						
Application No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.	
10/537,704	December 12, 2005	Unassigned	23389	Unassigned	6539	
Title: NOVEL X-CONOTOXIN PEPTIDES (-I)						
Address to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450						
37 CFR 1.97(b)						
1. <input checked="" type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.						
37 CFR 1.97(c)						
2. <input type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:						
<div style="margin-left: 40px;"> <input type="checkbox"/> the statement specified in 37 CFR 1.97(e); </div>						
OR						
<div style="margin-left: 40px;"> <input type="checkbox"/> the fee set forth in 37 CFR 1.17(p). </div>						

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
16095

In Re Application of: **Richard James Lewis et al.**

Application No. 10/537,704	Filing Date December 12, 2005	Examiner Unassigned	Customer No. 23389	Group Art Unit Unassigned	Confirmation No. 6539
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Title: **NOVEL X-CONOTOXIN PEPTIDES (-I)**

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMP as described below.
- ☐ Charge the amount of _____
- ☐ Credit any overpayment.
- ☒ Charge any additional fee required.
- ☐ Payment by credit card. Form PTO-2038 is attached.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

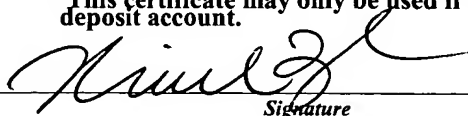
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June 28, 2006	
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Signature of Person Mailing Correspondence	
Xiaochun Zhu	
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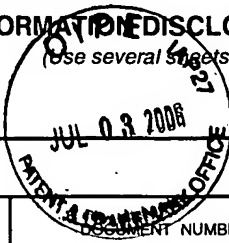

Signature

Dated: June 28, 2006

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				ATTY DOCKET NO.		APPLICATION NO.	
				16095		10/537,704	
				APPLICANT(S)			
				Richard James Lewis et al.			
FILING DATE				GROUP ART UNIT			
December 12, 2005				Unassigned			



U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	6,767,896 B1	7/27/2004	McIntosh et al.				
	6,794,361 B1	9/21/2004	Lewis et al.				
	5,587,454	12/24/1996	Justice et al.				

U.S. PATENT APPLICATION PUBLICATIONS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	2005/0054827 A1	3/10/2005	Lewis et al.				

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		WO 98/22126	5/28/1998	PCT				
		WO 91/07980	6/13/1991	PCT				
		WO 96/14079	5/17/1996	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
			Bowersox, S.S. et al., "Selective N-Type Neuronal Voltage-Sensitive Calcium Channel Blocker, SNX-111, Produces Spinal Antinociception in rat Models of Acute, Persistent and Neuropathic Pain", J. Pharmacol Exp. Ther., 279 (3): 1243-1249 (1996)
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EXAMINER	DATE CONSIDERED
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	ATTY DOCKET NO. 16095	APPLICATION NO. 10/537,704
	Richard James Lewis et al.	
	FILING December 12, 2005	GROUP ART Unassigned

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							YES	NO
		WO 96/40064	12/19/1996	PCT				
		WO 98/05309	2/12/1998	PCT				
		WO 98/02148	1/22/1998	PCT				
		WO 98/51668	11/19/1998	PCT				
		WO 97/30997	8/28/1997	PCT				

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		Takagi, H. et al., "Analgesic Effect of L-threo-3-4-dihydroxyphenylserine (L-DOPS) in Patients with Chronic Pain", European Neuropsychopharmacology, 6: 43-47 (1996)
		Eisenach, C. et al., "Cerebrospinal Fluid Norepinephrine and Acetylcholine Concentrations During Acute Pain", Anesth Analg, 82: 621-626 (1996)
		Dubner, R. et al., "The Neurobiology of Pain and Its Modulation", The Clinical Journal of Pain, 5(Suppl 2): S1-S6 (1989)
		Dyck, P.J et al., "New Understanding and Treatment of Diabetic Neuropathy", The New England Journal of Medicine, 326(19):1287-1288 (1992)

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO
WO 97/01351	1/16/1997	PCT				

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>
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			Atkinson, J. H. et al., "A Placebo-controlled Randomized Clinical Trial of Nortriptyline for Chronic Low Back Pain", Pain, 76: 287-296 (1998)
			Mico, J. A., et al., "Analgesic, Sedative and Antidepressant Effects of Noradrenergic Antidepressants Related to Beta-Adrenoceptors", European Neuropsychopharmacology, S162, P.1.086, Abstract (1997)
			Springer, J. P. et al., "Facilitatory and Inhibitory Effects of Selective Norepinephrine Reuptake Inhibitors on Hypogastric Nerve-Evoked Urethral Contractions in the Cat: A Prominent Role of Urethral β -Adrenergic Receptors", The Journal of Urology, 152: 515-519 (1984)

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		Dinan, T. G. et al., "Assessment of Central Noradrenergic Functioning in Irritable Bowel Syndrome Using a Neuroendocrine Challenge Test", <i>Journal of Psychosomatic Research</i> , 34(5): 575-580 (1990)
		Leung, D. et al., "Protease Inhibitors: Current Status and Future Prospects", <i>J. Med Chem</i> , 43(3): 305-341 (2000)
		O'Neill, M. J. et al., "Effects of Ca ²⁺ and Na ⁺ channel inhibitors in vitro and in global cerebral ischaemia in vivo", <i>European Journal of Pharmacology</i> , 332: 121-131 (1997)
		Eisenach, J. C. et al., "Intrathecal, but Not Intravenous, Clonidine Reduces Experimental Thermal or Capsaicin-Induced Pain and Hyperalgesia in Normal Volunteers", <i>Anesth Analg</i> , 87: 591-596 (1998)

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		Marban, E. et al., "Structure and Function of Voltage-Gated Sodium Channels", Journal of Physiology, 508.3: 647-657 (1998)
		Yanagawa, Y. et al., "A Novel Sodium Channel Inhibitor from Conus geographus: Purification, Structure, and Pharmacological Properties", Biochemistry, 27: 6256-6262 (1988)
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